

Pietra

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF PENNSYLVANIA

ARTHUR G. GIRTON, Executor : CIVIL ACTION NO. 85-7180
of the Estate of John R. :
Gunsalus, :
Plaintiff :
v. : Philadelphia, Pennsylvania
THE AMERICAN TOBACCO CO., : June 9, 1988
Defendant : 9:50 a.m.

JURY TRIAL - VOLUME THREE
BEFORE THE HONORABLE NORMA L. SHAPIRO, J.
UNITED STATES DISTRICT JUDGE

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APPEARANCES:

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1 (The following occurred in open court at 9:50 a.m.)

2 THE COURT: Who is the witness, we have Dr. Pietra?

3 MR. MANNINO: Yes, your Honor.

4 THE COURT: All right. Is there anything before
5 trial?

6 MR. MANNINO: Your Honor, I'd just like to give you
7 a copy of Dr. Ginzel's materials so that you'll have them
8 when we're --

9 THE COURT: You also said yesterday that you had
10 some sort of motion, but you didn't hand it up.

11 MR. MANNINO: That's been taken care of. The
12 plaintiffs are not going to raise the issue of DDVP.
13 Your Honor has previously ruled on...

14 THE COURT: What's DDVP, if I may ask?

15 MR. MANNINO: Pesticides, your Honor.

16 THE COURT: Oh, I thought the motion was about the
17 experiment.

18 MR. MANNINO: I thought your Honor had ruled on
19 that yesterday.

20 THE COURT: Well I just didn't want to keep you
21 from handing up something that you had.

22 MR. MANNINO: No, your Honor.

23 THE COURT: All right. I'll put the ruling on the
24 record actually when we finish with Dr. Pietra. I won't
25 take the time to do it now.

1 MR. JOHNSON: Before Dr. Ginzel takes the stand I'd
2 like a few minutes with supporting counsel.

3 THE COURT: Yes, all right.

4 Will you bring in the jury and would Dr. Pietra
5 take the stand, please.

6 (Jury in at 9:52 a.m.)

7 THE COURT: Good morning, please be seated.

8 Good morning, members of the jury. You recall
9 yesterday that we had heard Dr. Pietra's qualifications and
10 we were having some discussion about the nature of them
11 in regard to his testimony. I have ruled that he is
12 qualified to give the testimony that you will hear and the
13 weight of it will be for you after you hear all the
14 evidence in the case, just the same as any other witness.

15 You remain under oath, Dr. Pietra.

16 You may proceed, Mr. Johnson.

17 DR. GIUSEPPE PIETRA, Plaintiff's witness,
18 previously sworn, resumed.

19 CONTINUED DIRECT EXAMINATION

20 BY MR. JOHNSON:

21 Q Dr. Pietra, just to get us back on track from last
22 night, you are a pathologist at the University of
23 Pennsylvania?

24 A Yes, I am.

25 Q And you do consults for other doctors in the City of

1 Philadelphia?

2 A Yes, I do.

3 Q Or other doctors in the United States?

4 A Yes.

5 THE COURT: Mr. Johnson, I am sure the jury can
6 remember Dr. Pietra's qualifications from yesterday. Please
7 don't be repetitive.

8 MR. JOHNSON: Fine.

9 BY MR. JOHNSON:

10 Q Doctor, did you review slides of lung tissue from my
11 client, John Gunsalus?

12 A Yes, I review a slide, I remove at autopsy from the lung
13 tissue and the kidneys.

14 Q And, Doctor, did you reach a conclusion, did you reach
15 an opinion to a reasonable degree of medical certainty as to
16 the primary site of Mr. Gunsalus' cancer?

17 A Yes, I reached a conclusion with a high degree of
18 medical certainty that Mr. Gunsalus had a tumor which arose
19 in the lung, metastasized to his liver.

20 Q And, Doctor, how would you classify that lung tumor
21 according to the manner in which pathologists classify
22 tumors?

23 A Tumor is a small cell carcinoma of the lung.

24 Q Doctor, have you prepared a chart for the benefit of the
25 jury on the kind of lung cancers that exist?

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1 A Yes, I prepare a slide to explain the different types of
2 carcinoma that may arise from the lung.

3 MR. JOHNSON: Your Honor, may we put that on the
4 overhead projector and have the doctor use the microphone
5 over here to explain it?

6 THE COURT: Which microphone?

7 MR. JOHNSON: The one that is on the table.

8 THE COURT: Yes. I think he can take it in his
9 hand and get back by the slide. Yes, the answer is you may.

10 MR. JOHNSON: Would you step down, Doctor, and go
11 over by the screen?

12 Yes, then why don't you use that microphone right
13 there.

14 THE WITNESS: Most lung tumor arises from the
15 lining of the airways in carcinomas. Within these bodies,
16 three major group, according to their clinical behavior.

17 One group --

18 THE COURT: I'm sorry.

19 MR. JOHNSON: Could you pick up the microphone.

20 THE COURT: That's right. Use it as if you're
21 lecturing somewhere.

22 THE WITNESS: They can be divided in three groups,
23 based on their clinical behavior. One group is called low
24 grade malignancy. These are tumors that remain localized
25 for very long time and usually can be treated by surgery.

1 The group on the other side of the screen is called
2 high grade malignancy, and unfortunately most lung tumor
3 belong to the group. These are tumors that tend to spread
4 beyond the lung to the lymph glands, brain, liver and other
5 tissues, and therefore lead to death of a patient because
6 tumor cannot be controlled.

7 Then there is an intermediate group called
8 intermediate, but the behavior is somewhat between the low
9 grade and the high grade. Now, we can concentrate on the
10 high grade malignancy tumors. Again, because of the
11 clinical behavior, they can be divided into two major
12 groups, small cell and non-small cell.

13 The non-small cell are tumors that present, they
14 may present in a localized fashion, and can be treated
15 surgically. However, when they spread beyond the lung then
16 they cannot be treated surgically and there is not at the
17 present time a very effective modality of treatment.

18 The small cell carcinoma in contrast represent a
19 group of tumors that when they are discovered, they are
20 already growing beyond the lung, they have spread already to
21 the lymph glands or other tissues. Therefore, it cannot be
22 treated surgically; on the other hand, some of them respond
23 at least for a certain period of time to radiation therapy
24 and chemotherapy.

25 Now, again, these tumors, non-small cell and small

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1 cell, have different appearance when seen under the
2 microscope and therefore would be subdivided further into
3 different types. If we look at the non-small cell
4 carcinoma, we recognize about four main times.

5 The first type is called adenocarcinoma, these are
6 tumors that tend to form glands, the word "adeno" meaning
7 gland formation; the second type is called bronchoalveolar
8 carcinoma, because again of the appearance of the tumor
9 cells; the third one is called squamous, squamous cell
10 carcinoma, because the tumor cell tend to simulate the same
11 structure as we have in the skin, the squamous appearance.
12 And then the fourth type, the cell are very bizarre, very
13 varying size and shape, and they're called large cells.

14 If we go then the small cell group, again they're
15 divided, subdivided in three types, based on the microscopic
16 appearance, how they look under the microscope. One type is
17 called oat cell because the cell tends to be elongated and
18 pathologists like comparing the cell to other thing and they
19 call oat, because they tend to be elongated like oat seeds.

20 One type is called intermediate and, finally, the
21 third type is a combined, combined because it contains cells
22 that look like other adenocarcinoma cell or squamous cell
23 carcinoma.

24 BY MR. JOHNSON:

25 Q Doctor, are any of the cancers that you have put up

1 there in the high grade malignancy group caused by cigarette
2 smoking?

3 A Well, it is believed that all of them in the high grade
4 and possibly in the intermediate grade are caused by cigarette
5 smoking. Now, the risk associated is different and not all
6 of them have this same association of causation with the
7 cigarette smoking.

8 Q Which two have the highest causation or association?

9 A The tumors with the higher causation with cigarette
10 smoking are the small cell carcinomas and the squamous cell
11 carcinoma.

12 Q Now, Doctor, to distinguish between one or another of
13 those cancers, what as a pathologist do you do?

14 A Well, what we as a pathologist do is to cut very thin
15 sections of the tumor tissue and prepare with certain dyes
16 and certain stain to bring up characteristic appearance of
17 staining of the tissue and then examine under a microscope.

18 Q Well, Doctor, before you stain the tissue after you have
19 cut the section out, what does it look like; what color is
20 it?

21 A Well, most of the cancer looks sort of a whitish but
22 when they are cut, they're transparent.

23 Q Is that why you stain them?

24 A That's right.

25 Q Now, have you brought with you slides that you have in

1 your office that demonstrate the different forms of lung
2 cancer and what they look like under the microscope?

3 A Yes, I brought examples from the high grade malignancy
4 tumors, just to illustrate the different types. The slides
5 are from my tissue collection as well as from the World
6 Health Organization collection of classificational line
7 tumors.

8 Q And what is the World Health Organization?

9 A The World Health Organization is an international
10 organization involved with health problems and one of the
11 tasks of the World Health Organization is to arrive to a
12 uniform classification of tumors, including lung tumors, for
13 the purpose of collecting data from different part of the
14 world and to have a uniform way of classifying tumors.

15 Q Doctor, we can turn off the overhead and move to the
16 slides for a second. Doctor, would you go through the
17 slides and I think Mr. Childs will run them for you, and
18 describe what each of the slides demonstrate, illustrates?

19 MR. JOHNSON: Your Honor, if we're only going to be
20 using the slides for a minute or two, I am not sure that
21 they'll show up as well if the lights are on. May the
22 lights be dimmed?

23 THE COURT: Yes. Why don't you throw it on and
24 then we'll just reduce the lights till we're sure they can
25 be seen.

1 BY MR. JOHNSON:

2 Q Now, Doctor, in terms of what the jury is looking at, is
3 the color significant on these slides?

4 A The color is significant only in the sense that what
5 looks sort of dark purplish represent the nuclei, the center
6 of the cell, and the pink, the pink shade represent the cell
7 body. And these are important for us pathologists in order
8 to classify different type of tumors. We look at the size
9 of the cell, the size, the shape of the nuclei, as well as
10 the arrangement of the cells.

11 Q And what kind of lung cancer is that, Doctor?

12 A This is a view of an adenocarcinoma of the lung.

13 Q Could we take the next slide? What is this?

14 A This is a view of the bronchoalveolar carcinoma and
15 this structure which you see here is of the tumor cells.

16 Q Next slide, please. What is this?

17 A This is a view of a squamous cell carcinoma with the
18 diagnostic features for the pathology which is the presence
19 of this pink material.

20 Q What is that pink material?

21 A This is a carotid, it is a tissue which is similar to
22 what you see on the surface of the skin.

23 Q Next slide, please?

24 A This is a large cell carcinoma, it's called large cell
25 because the cells are quite irregular in the varying size,

1 some are very large, some are smaller, but they don't tend
2 to resemble any tissue that one knows.

3 Q Next slide, please?

4 A This is a small cell carcinoma, again it's called small
5 cell because the only thing that one recognizes under the
6 microscope is the presence of these dark dots, which are the
7 nuclei, and the cell has very little tissue around the
8 nucleus.

9 Q Now, the -- could we turn off -- well, let's leave that
10 on a second. Doctor, do you have a slide -- did you bring a
11 slide with you from John Gunsalus' lung?

12 A I took -- I brought with me a slide taken from the
13 autopsy material of Mr. Gunsalus.

14 Q Could we put that on? Doctor, describe what you see in
15 Mr. Gunsalus' slide?

16 A Well, what one sees on Mr. Gunsalus' slide is again the
17 presence of these very dark dots, which are the nuclei of
18 the cells, and the cell have not any evidence of subordial
19 cell cytoplasm around, and I think you can appreciate are
20 very similar to the slide from the small cell carcinoma.

21 Q Now, Doctor, the slide on the right which is the slide
22 from your office, where is that from?

23 A This is from the classification of lung tumor from the
24 World Health Organization.

25 Q Doctor, may we just go back through the other slides up

1 against Mr. Gunsalus' slide and identify them once more?

2 A As you can compare, this is a large cell carcinoma,
3 again characterized by very large bizarre nuclei and around
4 the nucleus one can recognize the presence of the subborder
5 of the cell cytoplasm. This is a squamous cell carcinoma,
6 this is a bronchoalveolar carcinoma, and this is an
7 adenocarcinoma.

8 Q And could we then put the small cell carcinoma from the
9 World Health Organization on the screen just once more?
10 Doctor, you mentioned -- I asked you a few minutes ago about
11 cigarette smoking and small cell carcinoma. During your--
12 in your work as a pathologist, approximately how many slides
13 of small cell carcinoma have you looked at in your career?

14 A Well, it's difficult to give a precise number, but it
15 must be at least more than a thousand.

16 Q Doctor, in how many of the cases where you have observed
17 small cell carcinoma has there been a history of cigarette
18 smoking?

19 A Well, in my experience, in my cases, all of the patients
20 had history of cigarette smoking.

21 Q Would the opposite of that, I take it, Doctor, would be
22 that you have never seen a case of small cell carcinoma
23 without a history of cigarette smoking?

24 A In my experience I have never seen it.

25 Q Now, Doctor, are you familiar -- would it be appropriate

1 to call Mr. Gunsalus' cancer on the left a neuroendocrine
2 tumor?

3 A Well, the -- I have again, it's short, it may explain
4 the terminology. The neuroendocrine tumor is confusing
5 terminology and I'd perhaps like to before I answer your
6 question explain what a neuroendocrine tumor is.

7 Q Could we turn off the slides and put on the overhead
8 that the doctor referred to.

9 Doctor, is that a chart that you prepared?

10 A I prepared this chart to explain on neuroendocrine
11 tumor, which is a relative new concept and it has probably
12 been misused in the light press. The certain lung cancers
13 produce chemical hormones and I believe to be arising from a
14 common cell type, and therefore, they receive the
15 denomination of neuroendocrine in the sense that it were
16 believed to be arrived from a cell similar to a nerve cell
17 that produces certain chemical substances, and really they
18 can be divided into groups of low-grade malignancy into
19 medium grade and high grade. And as most carcinomas are
20 part of a large group of tumor which fall into a large group
21 of neuroendocrine tumors.

22 A small cell carcinoma in a great majority of cases
23 are part of the neuroendocrine tumor classification. In
24 terms of epidemiology and trigger behavior, they are completely
25 separate from other groups which are the atypical carcinoma.

1 Q Doctor, what did you mean that in terms of the
2 epidemiology the small cell carcinoma was different?

3 A The neuroendocrine carcinoma, small cell carcinoma, the
4 lung is a variety of a neuroendocrine tumor but is what has
5 been described in the past as being small cell carcinoma.

6 All the data we have on the biology of small cell
7 carcinoma is based on the old terminology. Moreover, the
8 classification of small cell as neuroendocrine carcinoma is
9 not accepted yet in the general by the pathologies and by
10 the World Health Organization.

11 Q Doctor, if we were for whatever reason to put the name
12 neuroendocrine tumor on what you observed on John Gunsalus'
13 slide, would that change what caused it?

14 A Absolutely not.

15 Let me add the one thing --

16 THE COURT: I'm sorry. You just answer the
17 question because opposing counsel has the right to object to
18 the question.

19 BY MR. JOHNSON:

20 Q Do you wish to explain your answer further, Doctor?

21 A I would like to explain that to classify a tumor as a
22 neuroendocrine one would need to do additional studies that
23 could not be done in Mr. Gunsalus' tissue.

24 Q Now, Doctor, do you -- by looking at Mr. Gunsalus' tumor
25 are you able to state, by looking at the tumor or by looking

1 at x-rays when the tumor started to a reasonable degree of
2 medical certainty?

3 A I'm not able to do that.

4 Q Is anyone able to do that?

5 A I don't think anybody is able to do that.

6 Q Why is that?

7 A Because the rate of growth of a tumor is not constant.
8 What we know is and what has been trying to be measured is
9 the rate of growth of tumor when they become visible,
10 clinically by x-rays, it's called doubling time. What is
11 not known is the degree of progression of the tumor before
12 it becomes clinically manifest. From the time one single
13 cell is transformed into tumor cell to the time the tumor
14 becomes a visible mass, and this we don't know and nobody
15 knows how fast a cell will grow.

16 Q Doctor, I would like you to assume that John Gunsalus
17 smoked from 1941 to 1987 between one and two packs of
18 cigarettes per day and that the lung cancer that you have
19 looked at on the -- in the slides from the autopsy presented
20 in 1985, based on your education, training and experience in
21 the scientific evidence of your profession and the materials
22 you've reviewed in this case, do you have an opinion to a
23 reasonable degree of medical certainty as to whether his
24 smoking during his lifetime was a substantial contributing
25 factor to the development of the lung cancer that you

1 observed on the microscope?

2 A I believe so. I think it was a substantial factor in
3 developing his cancer.

4 Q Now, Doctor, assume that from 1941 to 1966, he smoked
5 between one and two packs of cigarettes per day and the lung
6 cancer presented in 1985, based on your education, training
7 and experience and the scientific evidence in your
8 profession and the materials you've reviewed in this case,
9 do you have an opinion to a reasonable degree medical
10 certainly as to whether his cigarette smoking prior to 1966
11 was a substantial contributing factor to the development of
12 his lung cancer which presented in 1985?

13 A Yes, I do. I believe that changes were induced in his
14 cells by the smoking prior to 1966.

15 Q And that would be a substantial contributing factor to
16 the development of his cancer?

17 MR. MANNINO: Your Honor, objection, leading.

18 THE COURT: Sustained. Do you need the Doctor here
19 any more, are there more slides or overheads?

20 MR. JOHNSON: Not at this point, your Honor.

21 THE COURT: Will you resume the witness stand.

22 BY MR. JOHNSON:

23 Q Doctor, would you please explain the answer that you just
24 gave?

25 MR. MANNINO: Objection, your Honor, I believe he's

1 given his opinion and he's leading him again.

2 THE COURT: No, he's asking him to explain his
3 opinion to the extent that he hasn't already testified, but
4 the prior question has been stricken. So, he's back to the
5 question before that.

6 MR. JOHNSON: That's right. Thank you, your Honor.

7 THE WITNESS: Will you repeat --

8 THE COURT: Is smoking prior to 19 -- from 1941 to
9 1966. You said you believed changes in his cells prior to
10 1966.

11 THE WITNESS: Yes, I do.

12 THE COURT: Now, the lawyer for Mr. Gunsalus is
13 asking you to explain that answer.

14 THE WITNESS: The way tumor develop is probably in
15 two stages. The first stage is changes in the nuclear
16 material and genetic material of the cell, which is called
17 initiation. Then a second phase is required for the tumor
18 to become clinically manifest, which is called promotion. I
19 believe that changes caused by smoking, carcinogen present
20 in smoking alter the genetic material in cells, in the lung
21 cells of Mr. Gunsalus, and therefore, I believe smoking
22 prior to 1966 had a substantial importance in the
23 development of his cancer.

24 MR. JOHNSON: Thank you. May I just have a moment?
25 Cross-examine.

1 THE COURT: Mr. Mannino -- oh, Mr. Sheffler,
2 excuse me. Would you like to turn off the slide please,
3 unless you want it.

4 MR. SHEFFLER: I don't believe so, your Honor.

6 BY MR. SHEFFLER:

7 Q Doctor, you submitted three separate letter reports to
8 the plaintiff's counsel in this case, did you not?

9 A I believe so.

10 Q And the first one was dated January 25, 1988. The
11 second one was dated February 26, 1988 --

12 THE COURT: Could you keep your voice up, I'm
13 having a little trouble hearing you?

14 MR. SHEFFLER: I'm sorry, your Honor.

15 Q And the third report was dated March 29, 1988; is that
16 right?

17 A That's correct.

18 Q Doctor, is it your opinion that the doubling time
19 computed from the serial chest x-rays are limited because
20 they only measure the clinical growth of the tumor?

21 A That's correct.

22 Q And that's after it's grown to one centimeter in size?

23 A At least a centimeter, sir.

24 Q And you're familiar though, Doctor, are you not, with the
25 experimental studies on human lung cancer cells in vitro

1 that made the doubling time?

2 A I'm vaguely familiar, yes.

3 Q Doctor, so that I understand what we mean with doubling
4 times, the medical community generally believes that a
5 cancer begins with one neoplastic cell; is that correct?

6 A It is there, I believe so.

7 Q And as a cancer grows that cell divides; is that
8 correct?

9 A That's correct.

10 Q One cell divides into two --

11 THE COURT: Ask the Doctor to define neoplastic,
12 since I don't think that's come up before, and we have one
13 neoplastic cell.

14 THE WITNESS: Neoplastic essentially means a new
15 growth, so a cell which is abnormal to the tissue.

16 THE COURT: One malignant or one cancer cell, is
17 that what you're talking about?

18 THE WITNESS: One cancer cell.

19 THE COURT: Some of us aren't as familiar with this
20 as others.

21 MR. SHEFFLER: Sorry, your Honor.

22 Q Until that first neoplastic cell presents itself in a
23 person, he does not have cancer; is that correct?

24 A That's correct.

25 Q And as that cell divides, the tumor doubles; is that

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1 correct?

2 A The tumor cell doubles.

3 Q And as two cells double into four and four into eight
4 and eight into sixteen, that's what we refer to as doubling
5 time; is that right?

6 A That's what it's believed to be, yes.

7 Q There are experimental studies such as found to be
8 labeling, autoradiographic studies that measure the growth
9 of this doubling time; isn't there Doctor?

10 A In vitro.

11 Q And Doctor, would you tell the jury what in vitro means,
12 please?

13 A In vitro means that the cells have taken away from the
14 normal environment of the body and put in an artificial
15 medium, an artificial condition and examined over a period
16 of time.

17

18 Q And isn't it true, Doctor, that in vitro studies form the
19 basis for many of the theories in carcinogenicity today?

20 A No, I don't agree with that.

21 Q Doctor, isn't it true that as tumors grow, as they
22 double, as they grow larger, the growth rate slows down
23 because of lack of nutrients, lack of oxygen, lack of space?

24 A Well, there are many factors. Nobody can extrapolate
25 from a vitro to what happens in people because as you

1 mentioned a tumor may grow, may die, some may die, they may
2 not receive enough of a blood supply. They are under a
3 different environmental control than in vitro, yes.

4 Q So, in other words, Doctor, in vivo, which is in the
5 body, the tumor cells would grow slower because of lack of
6 blood as you said, they may die, et cetera; is that true,
7 Doctor?

8 A No, that's not accurate at all. They may slow down, they
9 may accelerate to the growth factor which are secreted by
10 the body.

11 Q Doctor, did you know that Mr. Gunsalus had chest x-rays
12 on October 27th and 28th of 1984?

13 A No, I did not know that.

14 Q You did not review the medical records in this case,
15 Doctor?

16 A I did not.

17 Q Doctor, isn't it your normal practice when you get a
18 case whether it be in a legal situation or a medical
19 situation, isn't it your normal practice to review all of
20 the medical information available?

21 A No, it's not the normal practice. As a matter of
22 fact we received tissue from physicians with summaries of
23 what problem the patient has and we'd rely on the physician
24 to provide the clinical information.

25 Q Doctor, did you review the records of the treating

1 physicians in this case?

2 A No, I did not.

3 Q Again, Doctor, isn't it your normal practice to try to
4 review all of the treating pathologists reports when you
5 have a case to review?

6 MR. JOHNSON: Objection, I don't think there exists
7 such a thing as a treating pathologist.

8 THE COURT: I think that the medical expert can
9 take care of that himself.

10 THE WITNESS: It will be desirable to have as much
11 information as possible, yes.

12 BY MR. SHEFFLER:

13 Q And you didn't have that information in this case, is
14 that true, Doctor?

15 A I thought I had enough information because I was
16 provided with the autopsy reports and with a report from Dr.
17 Paul Epstein.

18 Q Dr. Paul Epstein was not a treating physician of Mr.
19 Gunsalus, was he?

20 A To my knowledge he was not.

21 Q Doctor, let me show you the reports of the October 27
22 and 28 x-rays -- these x-rays were taken in 1984.

23 MR. SHEFFLER: Your Honor, if I may?

24 THE COURT: Yes.

25 (Pause.)

1 MR. SHEFFLER: Your Honor, these reports were
2 previously marked as Defendant's AT-1.

3 THE COURT: 81?

4 MR. SHEFFLER: AT-1.

5 THE COURT: AT --

6 MR. SHEFFLER: AT-1. I'd like to designate them as
7 AT-1A since we're not putting in all the medical records at
8 this time.

9 THE COURT: All right.

10 BY MR. SHEFFLER:

11 Q Doctor, do you see the impression recorded on the
12 October 27, 1984 x-ray. I believe it's the second one
13 there, Doctor. Now, what does it state?

14 A No significant abnormality.

15 Q Doctor, in October 28, 1984, Mr. Gunsalus had another
16 chest x-ray?

17 A Yes.

18 Q And what does it state?

19 A It's difficult to read but they say no significant
20 abnormality.

21 Q So, Doctor, in 1984 in October, Mr. Gunsalus had no
22 significant abnormalities, no cancer mass indicated on the
23 chest films; is that true?

24 A It appears true.

25 Q Now, Doctor, I'd like to also give you another record

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1 from the medical directors at the VA.

2 MR. SHEFFLER: Again, your Honor, this is from
3 Defendant's AT-1 and we'd like this to be designated as 1B.

4 THE COURT: Is it B, did you say?

5 MR. SHEFFLER: 1B.

6 THE COURT: Okay.

7 Q If you would, Doctor, look in the second page of that
8 document. Do you see where it says CXR, about midway down,
9 Doctor?

10 A In mid sort.

11 Q Doctor, what does CXR -- what is that abbreviation?

12 A I guess -- I suppose a chest x-rays.

13 Q Doctor, do you see following CXR in four centimeters,
14 fluffy perihilar mass in interior lung?

15 A Yes.

16 Q Is that the cancer, Doctor?

17 A Most likely is the cancer.

18 Q Doctor, what's the date of that record?

19 A I'm trying to find it. 4-23-85.

20 Q So, Doctor, from October 1984 when the cancer was
21 undetectable on x-ray until April of 1985, Mr. Gunsalus'
22 cancer grew from something that was less than a centimeter
23 in a size to at least four centimeters in size; is that
24 true?

25 A It appears to be.

1 Q Now, Doctor, in your opinion is that consistent with the
2 reported doubling times for small cell carcinoma?

3 A I think it's classic presentation of small cell
4 carcinoma of the lung.

5 Q It has a very rapid doubling time, isn't it?

6 A Once it becomes manifest, yes.

7 Q And this is subclinically as well, isn't it, Doctor?

8 A No, there are no data.

9 Q Well, Doctor, in this patient as of 1984, October the
10 tumor was subclinical, was it not?

11 A In '84, yes.

12 Q So, from the subclinical time in '84 until its
13 presentation in April of '85 it grew very rapidly and very
14 aggressively; is that true?

15 A That's correct.

16 Q Now, Doctor, I want to ask you a question that I believe
17 was put to you in a little different form by Mr. Johnson.

18 Can you with a reasonable degree of medical certainty state
19 that John Gunsalus' cancer started growing before 1966?

20 A There's no way I can say that.

21 Q Can you state with a reasonable degree of medical
22 certainty, Doctor, that the first neoplastic cell which
23 began doubling was present in Mr. Gunsalus' lungs before
24 1966?

25 A It is possible but there's no way I can say.

1 Q But you cannot say?

2 A I cannot say.

3 Q Doctor, I guess that follows that you cannot say that
4 that cell did not develop after 1966 --

5 MR. JOHNSON: Object, to the form of the question.

6 THE COURT: Well, you asked him two ways, Mr.
7 Johnson. I think that on cross-examination, he can ask him
8 two ways.

9 MR. JOHNSON: I don't object to him asking the
10 question as long as he doesn't have double negatives. I
11 think that --

12 THE COURT: Well, if the witness doesn't understand
13 the question, I'm sure he knows how to communicate that.
14 Your objection is overruled.

15 THE WITNESS: Would you mind to repeat --

16 BY MR. SHEFFLER:

17 Q Doctor, with a reasonable degree of medical certainty
18 can you tell this jury that John Gunsalus' cancer, the first
19 neoplastic cell, did not start after 1966?

20 A I cannot say that.

21 Q Doctor, you testified on direct about clinical changes
22 in the cells, do you recall that, sir?

23 A Yes.

24 Q And it's your opinion that these clinical changes
25 possibly could be there before 1966; is that correct?

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1 A I believe they were, yes.

2 Q Now, these changes are reversible until they become that
3 neoplastic cell, are they not, Doctor?

4 A No, the changes are not reversible but the tumor cell
5 may die and fail to multiply as you mention to a clinical
6 tumor.

7 Q Doctor, you're familiar with Dr. Oscar Auerbach?

8 A Sure.

9 Q Is he a pathologist, sir?

10 A He's an experimental pathologist. He used to be a
11 Orange VA Hospital.

12 Q Doctor, you consider him an expert in the area of lung
13 cancer?

14 A No, I think -- he has written in the area of lung
15 cancer, yes.

16 Q In fact, Doctor, he has written in the area of lung
17 cancer in a book called "Fishman's Pulmonary Disease and
18 Disorders," isn't that true?

19 A That's correct.

20 Q And you've written in that book too, haven't you,
21 Doctor?

22 A That's correct.

23 Q Doctor, I'd like to show you a section from that book
24 and ask you a question about it.

25 MR. SHEFFLER: If I may, your Honor?

1 THE COURT: Yes.

2 MR. JOHNSON: Your Honor, may I be shown which of
3 the documents that I've been handed as this since I have one
4 page.

5 THE COURT: Certainly. Would you --

6 MR. SHEFFLER: Page 1399, Fishman's Pulmonary
7 Disease.

8 THE COURT: No, the one I have is 1391.

9 MR. SHEFFLER: 91, excuse me.

10 THE COURT: It has a figure 126B, that's how you
11 can identify it.

12 BY MR. SHEFFLER:

13 Q I'll have you direct your attention, Doctor, to the
14 section marked, the effects of stopping smoking. Follow
15 with me if you will, sir. After cessation of smoking, the
16 number of cells with atypical nuclei decreases,
17 progressively. Extent of reversal depending on the number
18 of years after smoking was stopped. A unique cell with the
19 disintegrating nucleus has been identified in the mucosa of
20 the ex-smoker. The presence of this cell has been
21 interpreted as evidence of a return to a more normal cell
22 population.

23 Do you agree with that, Doctor?

24 A I agree with the statement that Dr. Auerbach did in his
25 study, yes. It does not...

1 Q So the cells do return to a normal cell population --

2 MR. JOHNSON: Objection.

3 MR. SHEFFLER: -- upon quitting smoking, is that
4 correct.

5 MR. JOHNSON: Objection. Counsel's attempting to
6 quote back to the witness leaving out a portion of the
7 quote.

8 THE COURT: You may ask questions -- having
9 pointed out the quote, he can ask him a question that isn't
10 in the quote, if you ask it as a question instead of as a
11 comment of your own.

12 BY MR. SHEFFLER:

13 Q Doctor, in your opinion, do the cells that have been
14 changed by cigarette smoking revert to normal cell
15 populations upon cessation?

16 A No, absolutely not, because what you're talking about is
17 the appearance of the cell and it's possible under the
18 microscope the cell may appear normally but their genetic
19 materials been alter. This not going to be seen by lab
20 microscope, electromicroscopy.

21 Q It's not even seen by electromicroscopy?

22 A Absolutely not.

23 Q We don't have any other way of seeing this, do we,
24 Doctor?

25 A Well, there are new way of doing that which is called

1 molecular biology where nucleic acid is measured and
2 examined.

3 Q Doctor, I'd like to ask you a hypothetical question and
4 I'd like you to give me an answer to this question with a
5 reasonable degree of medical certainty, if you can, Doctor.

6 If John Gunsalus had stopped smoking in 1966 and
7 stopped and had never smoked another cigarette, can you with
8 a reasonable degree of medical certainty state that he would
9 have developed cancer in 1985?

10 A I don't know how I can answer the question because Mr.
11 Gunsalus did not stop smoking.

12 Q You can't answer that question, Doctor?

13 A I cannot answer.

14 Q You cannot answer the question?

15 A For that particular person I cannot answer that
16 question.

17 Q Doctor, are you familiar with the textbook, Spencer's
18 Pathology of the Lung?

19 A Yes, I am.

20 Q Do you own a copy of that book, Doctor?

21 A I have. I have two copies.

22 Q Two copies?

23 A Yes.

24 Q Do you have the most recent copy, the 1985 edition?

25 A I have recent copy, I have at home and in my office.

1 Q That's a book you generally recognize and rely upon, I
2 take it?

3 A It's an excellent book.

4 Q Doctor, I'd like to show you a section from Spencer's
5 Pathology of the Lung. This is Page 927 of Spencer's.

6 MR. SHEFFLER: May I, your Honor?

7 THE COURT: Yes.

8 BY MR. SHEFFLER:

9 Q Doctor, on Page 927, would you -- excuse me. 853, I'm
10 sorry, Doctor. Page 853, would you follow me, sir?

11 A Yes.

12 Q It is now confirmed that if a heavy cigarette smoker
13 ceases the habit, the risk of developing the disease
14 diminishes with every year since smoking stopped. After ten
15 years the risk is a little more than in a non-smoker.

16 Do you agree with that, Doctor?

17 A I agree that there are studies showing that, yes.

18 Q Would you agree, Doctor, that the risk decreases upon
19 cessation?

20 A Absolutely, after ten years or so.

21 Q And it continues to decline?

22 A It declines, yes.

23 Q And if a person stops for ten years, his risk is a
24 little more than a non-smoker's risk --

25 A It's about 2.5 percent.

1 Q And it continues to decline over time, is that correct,
2 Doctor?

3 A It says to be declined.

4 Q Doctor, you've shown us various slides of lung cancer.
5 Do you recall that, Doctor?

6 A Yes.

7 Q And you showed us four slides, I believe, that were from
8 the World Health Organization, Doctor?

9 A No. The last slide, the small slide were from the World
10 Health Organization. The other slide were from my private
11 collection.

12 Q Doctor, the classification of tumors is continually
13 evolving, is it not?

14 A That's correct.

15 Q In fact, the WHO or the World Health Organization
16 originally produced a classification of lung tumors in 1967,
17 is that right?

18 A That's correct.

19 Q And it revised that again in 1981?

20 A Yes.

21 Q And there are other classifications for lung carcinomas,
22 aren't there?

23 A Yes.

24 Q Are you familiar with the Armed Forces Institute of
25 Pathology classification system, Doctor?

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1 A Yes.

2 Q Is that the system that is generally used by most
3 pathologists in the country today?

4 A Yes.

5 Q Doctor, you showed us a picture of neuroendocrine
6 tumors, do you recall that?

7 A No, I did not show a picture of that, neuroendocrine
8 tumor.

9 Q Oh, you didn't show us a picture of a well
10 differentiated neuroendocrine tumor, is that true?

11 A I did not do that.

12 Q Doctor, on your chart where you described the different
13 kinds of lung cancer, do you recall that?

14 A Yes. There are two shots. The first or the second?

15 Q Well, let's talk about the first one, Doctor, where you
16 had small cell carcinoma, bronchoalveolar carcinoma,
17 adenocarcinoma. You also had a designation of atypical
18 carcinoid. Do you recall that, Doctor?

19 A Yes.

20 Q An atypical carcinoid has been referred to in various
21 ways, has it not, Doctor?

22 A Yes.

23 Q In fact, some people call an atypical carcinoid a well
24 differentiated neuroendocrine tumor, isn't that true?

25 A That's correct.

1 Q You didn't have a picture of a well differentiated
2 neuroendocrine tumor to show the jury today, did you?

3 MR. JOHNSON: Objection. May we go to sidebar,
4 your Honor.

5 THE COURT: Yes.

6 (Sidebar discussion as follows:)

7 MR. JOHNSON: The only pathologist retained by the
8 defense described Mr. Gunsalus' tumor as a well
9 differentiated neuroendocrine tumor which in his mind was
10 equivalent to a small cell carcinoma.

11 MR. SHEFFLER: It's not true.

12 THE COURT: If counsel intends to take the position
13 that this is an atypical carcinoid, I object because I have
14 been put on absolutely no notice about that.

15 MR. SHEFFLER: Your Honor, the witness --

16 THE COURT: I don't think he's doing anything of the
17 sort. I don't think that this is the appropriate time to
18 anticipate the defense. If when they put on their defense
19 you want to object because you haven't had notice, I'll hear
20 you. Right now you anticipated their defense evidently by
21 showing slides of nuclear cells and saying what they were.
22 He's entitled therefore to cross-examine him to point out
23 that he brought slides of four kinds of high grade
24 malignancies and he didn't bring any slides of --

25 MR. JOHNSON: I don't --

1 THE COURT: I'm not sure what you can make of it at
2 this point.

3 MR. JOHNSON: I don't object to that.

4 THE COURT: But you're objecting to -- the question
5 that you objected to, you didn't bring any slides of
6 neuroendocrine tumors and asking him if he thought it was
7 more along the --

8 MR. JOHNSON: Fine.

9 THE COURT: He had three kinds of small cell, he
10 had four kinds of non-small cell, he showed the oat, the
11 small cell and he showed all his and he showed -- to show
12 why it was small cell and not those. I don't recall he
13 showed the difference between an oat, an intermediate or a
14 combined. He didn't show the atypical carcinoid and he
15 didn't show the other -- the adeno -- whatever you call
16 them. He can show that he didn't show all of those. If the
17 jury wants to believe it might have been one of those,
18 that's an inference he can raise.

19 MR. JOHNSON: Fine. All right.

20 (End of sidebar discussion.)

21 THE COURT: The objection's overruled. The pending
22 question, I believe, can be repeated.

23 BY MR. SHEFFLER:

24 Q Doctor, you did not have a picture to show the jury
25 today to compare with Mr. Gunsalus' cancer of an atypical

1 carcinoid, is that true?

2 A I did not bring -- yes. I did not want to give a lecture
3 on lung tumors.

4 Q And that, Doctor, an atypical carcinoid is also called a
5 well differentiated neuroendocrine tumor, is that correct?

6 A That's correct.

7 Q Would you agree, Doctor, that there are certain
8 characteristics that small cell carcinoma and atypical or
9 well differentiated neuroendocrine tumor have in common?

10 A No, I don't agree with that.

11 Q You don't agree there's any morphological
12 characteristics that can be found in both tumors, Doctor?

13 A Not until I microscope.

14 Q Doctor, are you familiar with the -- are you familiar,
15 sir, with the Armed Forces Institute of Pathology?

16 A Oh, sure.

17 THE COURT: That was asked and answered.

18 BY MR. SHEFFLER:

19 Q And, Doctor, doesn't that fascicle talk about well
20 differentiated or atypical carcinoids?

21 A I don't believe it talks of atypical carci --
22 neuroendocrine tumor in the fascicle but it describes
23 atypical carcinoid, yes.

24 Q And doesn't it say, Doctor, that in an atypical
25 carcinoid, rosettes and trifecular patterns can be seen?

1 A That's correct.

2 MR. JOHNSON: Objection. If counsel's going to put
3 something -- if he's going to talk about what a book says, I
4 think he should put it in front of the doctor.

5 THE COURT: He's not required to do that.

6 Overruled.

7 BY MR. SHEFFLER:

8 Q And, Doctor, doesn't that same book also said that you
9 can see rosette patterns and trifecular formations in small
10 cell carcinoma?

11 A That's true.

12 Q So therefore, Doctor, there is at least two patterns
13 that you can see in both an atypical carcinoid and a small
14 cell carcinoma?

15 A If you take it as read context, yes.

16 Q Doctor, the slides that you have shown the jury today,
17 that were prepared by you, one of those was from John
18 Gunsalus' lung cancer, is that correct?

19 A Yes.

20 Q And three of them were other slides that you had
21 prepared from other cancers, is that correct?

22 A I believe there are four.

23 Q Well, Doctor, I think you told us that one of the slides
24 was from the World Health Organization?

25 A Oh, yeah. Well, that's from my collection, right..

1 Q So the other three slides were prepared by you?

2 A Yes.

3 Q Doctor, one of those slides was a squamous cell
4 carcinoma.

5 A Yes.

6 Q What was the magnification of that?

7 A I think the magnification was about 450.

8 Q What was the magnification of the small cell carcinoma
9 of Mr. Gunsalus?

10 A It was about 250.

11 Q So, Doctor, when you showed us the comparison between
12 Mr. Gunsalus' lung cancer and the squamous cell of the
13 bronchoalveolar and the other pictures that you had there,
14 they were not all of the same magnification, were they?

15 A That's correct.

16 Q In fact, the small cell carcinoma for Mr. Gunsalus was a
17 lower magnification, isn't that true?

18 A It was the same magnification as the World Health
19 Organization.

20 Q But it was a lower magnification than the squamous cell
21 carcinoma you showed, the bronchoalveolar carcinoma that you
22 showed and the adenocarcinoma that you showed?

23 A Yes, because I wanted to use the slide from the World
24 Health Organization and to compare the two, I had to use a
25 set magnification on Gunsalus that the World Health

1 Organization I had.

2 Q If you used different magnifications, Doctor, that does
3 not give you an accurate comparison, does it?

4 A You can say that.

5 Q But you use a different magnification to compare Mr.
6 Gunsalus' slide that you prepared to the squamous cell, the
7 adeno and the bronchoalveolar, is that true?

8 A Yes, I did.

9 Q Doctor, the size of Mr. Gunsalus' lung tumor was
10 approximately six by four by four centimeters, is that
11 right?

12 A By the time he die?

13 Q At autopsy.

14 A Yes.

15 Q Would you agree, Doctor, that the tissue block that you
16 received was from that tumor that was seen at autopsy?

17 A Well, let me qualify that. I -- my original letter of
18 February 26th, I received tissue from the autopsy.

19 Subsequently when I was asked to testify I received the
20 entire -- all the slides from Mr. Gunsalus including biopsy
21 and I reviewed them.

22 Q Doctor, the slide that you used to photograph so the
23 jury could see it today, was that made from Mr. Gunsalus
24 tumor?

25 A Yes, it was from the autopsy.

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1 Q Okay. Would you agree, Doctor, that that came from a
2 tissue block from that tumor?

3 A Oh, yes.

4 Q And would you agree, Doctor, that the tissue block
5 comprised less than five percent of the entire tumor?

6 A Well, the particular slide I'm sure was from a tissue
7 block.

8 Q Doctor --

9 A I have reviewed several blocks which comprise more than
10 what you --

11 Q I agree, Doctor, that you've reviewed several blocks. My
12 question is, did the tissue block that you made the slide,
13 that you made the picture, that you showed the jury, that
14 tissue block was less than five percent of Mr. Gunsalus'
15 tumor, was it not?

16 A Yes.

17 Q And, Doctor, the slide that you prepared, the
18 microscopic slide, you took a sliver of that tissue block --

19 A Mm-hmm.

20 Q -- and you put it on a slide, is that right?

21 A Yes.

22 Q And that sliver of tissue, that was less than five
23 percent of the tissue block, wasn't it?

24 A That's correct.

25 Q And, Doctor, when you took your picture to show the

1 jury, you took only one small portion of that entire slide,
2 isn't that true?

3 A That's correct.

4 Q And that was even less than five percent of the entire
5 portion of that slide, isn't that right?

6 A That's correct.

7 Q So, Doctor, would you agree that what you've shown the
8 jury is less than one-hundredth of a percent of Mr.
9 Gunsalus' tumor?

10 A It was -- yes. It was representative of the entire
11 tumor.

12 Q Doctor, have you heard of the term, interobserver
13 variability as it is applied in pathology?

14 A Yes.

15 Q And that happens when two or more pathologists look at
16 the same slides of the tumor and come to different diagnoses,
17 isn't that right?

18 A No. I think you should -- this should be qualified. I
19 think that two pathologists, expert in the field, would not
20 really reach a different conclusions -- they may reach a
21 different conclusion as the subtype.

22 Q Doctor, is it true that well differentiated
23 neuroendocrine tumor and small cell carcinoma are both
24 subtypes of the family of neuroendocrine carcinoma?

25 A Yes.

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1 Q Doctor, you submitted three different reports, you
2 recall, to Mr. Johnson.

3 A Yes.

4 Q I'd like to turn now, Doctor, to the first report. Now,
5 do you have a copy of that with you?

6 A No, I don't.

7 Q If I may --

8 MR. JOHNSON: Objection, your Honor. May we go to
9 sidebar.

10 THE COURT: Yes.

11 (Sidebar discussion as follows:)

12 MR. JOHNSON: This first report concerns a
13 digestion study he did on tissue for the presence of
14 asbestos fiber. I did not inquire about that on direct, I
15 did not ask him for an opinion about asbestos, I think
16 accordingly it is beyond the scope and I request that my
17 objection be sustained.

18 MR. SHEFFLER: Your Honor, may I be heard?

19 THE COURT: Yes. Let me see the report.

20 MR. SHEFFLER: Your Honor, this was an expert
21 report. It was tendered to the defendants by the
22 plaintiffs. Also, your Honor, Dr. Pietra has --

23 THE COURT: I didn't know -- of course an expert
24 report is tendered by the plaintiffs that you can
25 cross-examine beyond the scope of direct.

1 MR. SHEFFLER: Well, I would like to add, your
2 Honor, that this report has been sent to other plaintiffs.
3 Other plaintiffs have seen it and they've testified about it.
4 Dr. Paul Epstein had testified about Dr. Pietra's digestion
5 analysis.

6 MR. JOHNSON: Only on cross.

7 MR. SHEFFLER: In that, your Honor, he testified
8 that Dr. Pietra's analysis was not credible and not reliable
9 because it was of cancer of the lung. Dr. Pietra's report
10 states that it is not of cancer of the lung. It was a
11 cancer in one block with tissue, lung tissue in the other
12 block.

13 THE COURT: Let me read the report and see what
14 you're offering.

15 (Pause.)

16 (End of sidebar discussion.)

17 THE COURT: I'll excuse the jury. Oh, we'll take
18 at least ten minutes, if you want to step out.

19 (Jury excused.)

20 (Sidebar discussion as follows:)

21 THE COURT: Mr. Sheffler, I'm sure I misunderstand
22 you. As I understand it, you want to bring this up because
23 then you want to show that Dr. Epstein said he didn't know
24 what he was talking about.

25 MR. SHEFFLER: Dr. Epstein misrepresented what --

1 THE COURT: Did Dr. Epstein testify about this
2 report in his testimony?

3 MR. SHEFFLER: Yes, he did.

4 THE COURT: What was it that he said? I don't
5 remember.

6 MR. SHEFFLER: He said --

7 THE COURT: Did he say he relied on it?

8 MR. JOHNSON: No.

9 MR. SHEFFLER: He discounted it.

10 THE COURT: In his testimony here?

11 THE COURT: And the reason he discounted it, you
12 Honor, was he said that --

13 THE COURT: Oh, you asked him something about
14 whether asbestos would change his opinion or something?

15 MR. SHEFFLER: He asked Dr. Epstein --

16 THE COURT: Let me have the transcript, please.

17 All right.

18 MR. SHEFFLER: Dr. Epstein testified that he -- if
19 I may, your Honor.

20 THE COURT: That's why we don't usually have things
21 plugged in here.

22 MR. SHEFFLER: If I may, your Honor, may I just put
23 this in the proper context?

24 THE COURT: Yes, you may.

25 MR. SHEFFLER: There were three reports given by

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1 Dr. Pietra. The first report dealt --

2 THE COURT: I gathered that. I heard that.

3 MR. SHEFFLER: After Dr. Pietra had given us this
4 report --

5 THE COURT: Yes.

6 MR. SHEFFLER: -- we received another report from
7 Structure Probe. The Structure Probe report, your Honor,
8 has been sent to all their expert witnesses --

9 THE COURT: I understand that.

10 MR. SHEFFLER: -- and we intend to hear Structure
11 Probe report referred to frequently.

12 THE COURT: Yes.

13 MR. SHEFFLER: Both of them were lung digestion
14 analysis.

15 THE COURT: All right.

16 MR. SHEFFLER: Dr. Pietra did a lung digestion
17 analysis which is a destructive test performed on lung
18 tissue.

19 THE COURT: Yes.

20 MR. SHEFFLER: For the presence of asbestos fibers.
21 We believe that we have the right to examine the person who
22 did the test when we establish that his results are
23 different than the Structure Probe results.

24 THE COURT: Well --

25 MR. SHEFFLER: We would like to be able to do that,

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1 your Honor, with the witness because Dr. Paul Epstein
2 discounted the report by saying, of course you won't find
3 asbestos, it's all cancer and it's not.

4 THE COURT: If you think that his findings support
5 your case, offer him as of cross on your case or something.
6 I won't --

7 MR. SHEFFLER: Can we call Dr. Pietra for the
8 purpose of explaining his report on our cross?

9 THE COURT: Well, would you object to that?

10 MR. JOHNSON: As an expert witness?

11 THE COURT: Well, he wouldn't be an expert, he'd be
12 a fact witness. Isn't this a fact what he did and what he
13 found? You couldn't call him as an expert. But it seems to
14 me that on what he did and what he found it would be a fact
15 witness, wouldn't it? I mean, if one of your -- as I
16 understand one of your experts did experiments that vary
17 from other experiments -- who's going to offer Structure
18 Probe analysis?

19 MR. JOHNSON: It's already been used as a basis for
20 Dr. Epstein's testimony.

21 MR. SHEFFLER: It's a basis for all --

22 THE COURT: But I mean something on that you rely?

23 MR. JOHNSON: That's right.

24 THE COURT: All right. So --

25 MR. JOHNSON: Because it was a destructive test

1 pursuant to the Federal Rules we advised them of Dr.
2 Pietra's findings.

3 THE COURT: Yes, I understand that. And they want
4 those findings on the record because as I understand it they
5 contradict Structure Probe, is that correct?

6 MR. SHEFFLER: That's right.

7 THE COURT: Okay. Now, Dr. Epstein said, this is
8 wrong and Structure Probe is right, is that it?

9 MR. SHEFFLER: That's right.

10 THE COURT: Okay. Well, now, why -- I agree with
11 you it goes beyond the scope of the direct --

12 MR. JOHNSON: Mm-hmm.

13 THE COURT: -- but why shouldn't they be able to
14 have on the record that these findings, in other words, it's
15 in a sense an admission, I mean, he isn't your agent or
16 something.

17 MR. JOHNSON: Mm-hmm.

18 THE COURT: And I mean this is a finding of the
19 fact and in the interest of the administration of justice
20 that this was found -- but I don't think that it's
21 appropriate to do it. He didn't rely on the asbestos, he's
22 not talking about the asbestos.

23 MR. JOHNSON: Well --

24 MR. SHEFFLER: May I raise one other issue?

25 THE COURT: Yeah. Did you cross-examine Dr. Pietra

1 -- Dr. Epstein about this?

2 MR. SHEFFLER: We did. And here's the
3 cross-examination. It's right --

4 MR. MANNINO: I did that.

5 THE COURT: Well, then, it is on the record.

6 MR. SHEFFLER: Well, it seems that the
7 responsiveness -- Epstein is misleading. That's what I'd
8 like to clear up.

9 MR. MANNINO: That's wrong.

10 THE COURT: Right.

11 (Pause.)

12 THE COURT: These have pieces of the tumor, not
13 pieces of the lung tissue.

14 MR. SHEFFLER: There was pieces of the lung tissue
15 in --

16 THE COURT: Well, Mr. Johnson, you didn't answer me
17 about getting -- it is true that Dr. Epstein denied -- I
18 mean, that he said something about this that doesn't
19 seem consistent but maybe what we have is the rule that you
20 cross-examine a person and then you can't introduce into
21 point of evidence to prove they're wrong about matters --

22 MR. JOHNSON: I think that's all we have here.

23 THE COURT: -- in evidence --

24 MR. SHEFFLER: Your Honor, if I may. The dilemma
25 that we're placed in is this, we have two studies done and

1 they're the same types of studies, one by Dr. Pietra and one
2 by Structure Probe. They didn't like the results Dr.
3 Pietra, now they intend to squelch it and keep it from the
4 jury and --

5 THE COURT: I don't think that's fair to
6 characterize what they're doing that way.

7 MR. JOHNSON: If I wanted to squelch it, you
8 wouldn't have gotten a copy of that report but because I'm
9 an officer of the Court, you did.

10 MR. SHEFFLER: And you gave us a copy of the
11 report so that we could use it.

12 THE COURT: Well, you did use it. You used it to
13 cross-examine Dr. Epstein. The trouble is that you didn't
14 seem to remember what it said.

15 MR. SHEFFLER: That's what's going to happen
16 with all of these witnesses we can cross-examine unless we
17 can establish a foundation that it was done by Dr. Pietra in
18 a reasonable and calculated way.

19 MR. JOHNSON: Where are we, your Honor?

20 MR. SHEFFLER: We want to explore the basis on how
21 he did it and what he used.

22 THE COURT: Well --

23 MR. JOHNSON: Well, if they open that door, then
24 there's plenty I'll do on recross -- redirect.

25 MR. SHEFFLER: That's fine.

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1 THE COURT: Well, it doesn't seem to me an
2 appropriate time and place to do it. I think that we should
3 limit his testimony to the direct and if this has
4 independent relevance for one reason or another, I think that
5 you should point out how you're entitled to use it under the
6 Rules of Evidence and give Mr. Johnson a chance to oppose if
7 he wants. But I certainly would not ordinarily permit them
8 to call someone else's expert but I'm not convinced that
9 this is expert testimony unless you state that his analysis
10 or his -- it's just a matter of opinion.

11 MR. JOHNSON: Well --

12 THE COURT: Is there something on which people's
13 opinion could differ?

14 MR. JOHNSON: As to what they look --

15 MR. SHEFFLER: The opinion could differ as to the
16 environmental contamination point, your Honor. Whether or
17 not what Dr. Pietra follows environmental contamination or
18 not is opinion testimony.

19 THE COURT: Now, just a minute. He said he
20 analyzed tissue specimens. He said what he did and what he
21 took and then he said the analysis showed that of two
22 samples received, A contained 135 of dry weight, the other
23 contained 204 asbestos of dry weight leaving out whether
24 they're compatible with environmental and that's an opinion.

25 MR. JOHNSON: Well, I think that counsel here is

1 going to probably attempt to establish that it requires
2 quite a bit of expertise not only to do the test but to look
3 at what you see and say that it's asbestos and extrapolate
4 how much it is. So I think that certainly requires
5 expertise.

6 THE COURT: The thing is complicated by the fact
7 that it's destructive testing. I mean, it's the same
8 problem we presented about the autopsy when -- isn't this
9 the case on which the autopsy was without their notification
10 and we have a great deal of concern about that?

11 MR. JOHNSON: Yes. Or their request to be
12 notified, to be advised.

13 THE COURT: Pardon?

14 MR. JOHNSON: They -- you may remember that what
15 came up at that hearing was the fact that they knew for a
16 year and a half that my client was dying and never made a
17 request that they be present at any autopsy.

18 MR. SHEFFLER: There was no --

19 THE COURT: Well, there was a motion, wasn't there,
20 for an autopsy? No, that's a different --

21 MR. JOHNSON: No.

22 THE COURT: That's a different case.

23 MR. SHEFFLER: Your Honor, without our knowledge,
24 without our advising --

25 THE COURT: Well, you did know he was going to die.

1 I guess what you didn't know is whether they'd do an
2 autopsy.

3 MR. SHEFFLER: We didn't know they were going to
4 spirit the body away and do an autopsy.

5 MR. MANNINO: Excuse me, your Honor, in terms of
6 that on the record.

7 THE COURT: Yes.

8 MR. MANNINO: Suggestion of death was ever filed
9 until we filed a motion to dismiss the case. And the
10 autopsy was formed, I think within a day or two of the
11 death.

12 THE COURT: All right.

13 MR. JOHNSON: You normally perform autopsies within
14 a day or two of death.

15 THE COURT: It's a different -- in another case I
16 have expressed my views about doing autopsies in asbestos
17 cases without notifying opposing counsel; I find it
18 improper. In that case there was a motion filed, but the
19 answer wasn't due and they chose to ignore it.

20 I believe this is a difficult issue and I would
21 like to do some research based on argument on the laws of
22 evidence about this so that I'll preclude you from asking
23 about it at this time and I'll reserve ruling and I'll keep
24 Dr. Pietra available.

25 MR. MANNINO: Your Honor, may we have until Monday

1 to submit a brief on this issue?

2 THE COURT: Dr. Pietra is local and could be
3 recalled?

4 MR. MANNINO: Yes.

5 MR. JOHNSON: I know he is local. I don't know
6 whether he has any plans for the next week or two.

7 MR. MANNINO: Can we ask him?

8 THE COURT: Well, I'll find out.

9 Dr. Pietra, do you have any plans to go to
10 scientific conferences or take a vacation in the next
11 week or so?

12 THE WITNESS: No.

13 THE COURT: Do you have any plans to testify
14 outside of the city that would take you out of town?

15 THE WITNESS: Not that I know of.

16 THE COURT: All right, thank you. We may wish to
17 recall you, but I'm going to limit. You could be excused to
18 take a break for a minute, and you also. I will reserve
19 ruling on this and preclude you for the time being.

20 MR. MANNINO: And we'll submit a brief by Monday,
21 your Honor.

22 THE COURT: Very well. And you can either wait for
23 theirs or you can submit something, but I consider this very
24 difficult. I want to be fair to both sides. You're
25 absolutely right, it didn't come up in the direct; it may be

1 that there are substantial interests of justice involved and
2 I would like to consider it and do what is fair to both
3 sides.

4 All right, now take a break.

5 (End of sidebar discussion.)

6 (Recess taken.)

7 THE COURT: You may be seated.

8 (Sidebar discussion held on the record as follows:)

9 MR. JOHNSON: Your Honor, we had a discussion
10 yesterday about Dr. Pietra's life in Europe before he came
11 to America.

12 THE COURT: It was Dr. Ginzel.

13 MR. JOHNSON: Ginzel, you're right.

14 THE COURT: Yes.

15 MR. JOHNSON: I made statements about my
16 understanding of what happened during the Second World War.
17 Basically, I was accurate but there is a lot more to it than
18 what I said.

19 THE COURT: It may be that we will impound this,
20 depending on what it is.

21 MR. JOHNSON: Well, I'd like to have a discussion
22 with the Court and counsel off the record.

23 THE COURT: Yes.

24 MR. JOHNSON: Describe what this is. I frankly
25 think that his privacy deserves to be respected.

1 THE COURT: I understand that, but I guess that you
2 want to hash it out before we go into his background.

3 MR. JOHNSON: Well, that's the reason I mentioned
4 it.

5 THE COURT: All right.

6 MR. JOHNSON: What happened was last night I sat
7 down with the doctor and went over it blow by blow.

8 THE COURT: What I would like to do though is
9 excuse Dr. Pietra. I'm sure he has other things to do.

10 You will bring the jury back, we'll finish Dr.
11 Pietra and I was just hoping to go -- I guess I'll just
12 excuse them for an early lunch and we'll go right up to
13 lunch.

14 MR. MANNINO: Your Honor, we could do
15 qualifications, if you want.

16 THE COURT: Well, he's afraid -- he's not sure he
17 is --

18 MR. MANNINO: I don't think it should mean a lot,
19 but I don't want to be put in a position of not asking
20 questions that I should ask.

21 THE COURT: All right, let's just get Dr. Pietra
22 excused.

23 (End of sidebar discussion.)

24 THE COURT: Dr. Pietra, will you come back to the
25 stand and bring the jury? These discussions are very

1 interesting to counsel and the Court, but I'm sure you have
2 some other things you'd like to be doing.

3 (Jury in at 11:20 a.m.)

4 THE COURT: Please be seated.

5 Does that conclude your cross-examination?

6 MR. SHEFFLER: At this time, your Honor, it does.

7 THE COURT: Very well.

8 REDIRECT EXAMINATION

9 BY MR. JOHNSON:

10 Q Dr. Pietra, do you believe that it's proper to
11 extrapolate from in vitro studies to in vivo information,
12 that is to say from experimental studies to human
13 information in terms of doubling time of tumors?

14 A No, because what we can get from an in vitro study are
15 some basic information but in vivo tumor are under a variety
16 of influences that cannot be duplicated in vitro. So one
17 cannot extrapolate from in vitro to in vivo studies.

18 Q What do you mean a variety of influences?

19 THE COURT: Influences or information?

20 THE WITNESS: Influences.

21 They are growth factors, they are factors related
22 to blood supply, to oxygen delivery, and a variety of
23 conditions which has to do with the particular individual
24 that are impossible to duplicate either in vitro or even in
25 experimental animals.

1 BY MR. JOHNSON:

2 Q Doctor, with respect to the slide of Mr. Gunsalus which
3 you've talked about, do you in the ordinary practice of your
4 profession normally look, normally have every single piece
5 of the tumor cut up into slides?

6 MR. SHEFFLER: Objection, your Honor, to form.

7 THE COURT: Overruled.

8 THE WITNESS: it is usual practice in pathology to
9 take samples of a tumor which are tiny pieces of a tumor and
10 examine under microscope, and it would be impossible to cut
11 the entire tumor, especially a tumor of about 6 centimeter
12 in size.

13 BY MR. JOHNSON:

14 Q How many slides would that make?

15 A Oh, that would be a hundred thousand slide which would
16 be impossible to review. That would be useless because what
17 one does is to take sample from different slide and examine
18 how the tumor looks under the microscope and if all the
19 slide look the same, one has the idea that one has taken a
20 representative sample of the tumor.

21 Q And have you reviewed all of the slides in this case?

22 A I have reviewed all of the slides in this case prior to
23 this meeting.

24 Q Doctor, could you put up the slide of Mr. Gunsalus?

25 THE COURT: Just a minute. Would you ask your

1 question so I see if it's necessary to show the slides
2 again?

3 MR. JOHNSON: Sure.

4 BY MR. JOHNSON:

5 Q Doctor, with respect to the slide of Mr. Gunsalus, would
6 an atypical carcinoid look like the slide of Mr. Gunsalus?

7 MR. SHEFFLER: Objection, your Honor; leading.

8 THE COURT: Sustained.

9 BY MR. JOHNSON:

10 Q Are there any -- what differences, if any, are there
11 between an atypical carcinoid and the sort of carcinoid --
12 the sort of cancer that appears in Mr. Gunsalus' slide?

13 A A typical carcin -- there are two differences, one are
14 the clinical differences and then there are pathologic
15 differences. The clinical differences are due to the fact
16 that well differentiated neuroendocrine carcinoma or a
17 typical carcinoid are localized tumors. They usually arise
18 away in the lung periphery as nodules that can be recognized
19 that grow slowly and they may metastasize, may spread beyond
20 the lung, but it takes a long time. So there are clinical
21 differences, small cell carcinoma spread very rapidly, grow
22 very quickly as they did in this case, and spread beyond the
23 lung very rapidly. Microscopically the well differentiated
24 or atypical carcinoid is a more compact, cohesive appearance
25 than what we see in the slide of Mr. Gunsalus. So they are

1 microscopic clinical differences.

2 Q Do you believe that the cell you saw --

3 MR. JOHNSON: Oh, I'm sorry, may we turn it on, your
4 Honor?

5 THE COURT: Well, what I am asking you to do is ask
6 a question in which it's necessary to show them that is
7 appropriate on redirect. So far, the witness hasn't shown
8 any need for any slide and I haven't heard any question that
9 requires it.

10 MR. JOHNSON: Fine.

11 THE COURT: So when that time comes you may turn it
12 on.

13 MR. JOHNSON: Thank you.

14 BY MR. JOHNSON:

15 Q Doctor, is there any reason to believe that this slide,
16 which I would like to show, is an atypical carcinoid?

17 A Absolutely not.

18 THE COURT: All right. Now, do you need the slide
19 to show why not?

20 THE WITNESS: I don't think I could be -- if it's
21 really necessary because --

22 THE COURT: Then we can turn it off?

23 MR. JOHNSON: Fine.

24 THE COURT: I'm attempting to let the witness
25 testify.

1 MR. JOHNSON: Yes, your Honor.

2 BY MR. JOHNSON:

3 Q Doctor, with respect to the documented Page 853 from
4 "Carcinoma in the Lung," do you still have that in front of
5 you?

6 A No.

7 MR. JOHNSON: May I approach the witness with my
8 copy, your Honor?

9 THE COURT: If you'd tell me which --

10 MR. JOHNSON: I don't have anything. I have one
11 page, your Honor.

12 MR. MANNINO: Your Honor, we have the original
13 book that it came from.

14 THE COURT: I have Page 927 and 1391, but I don't
15 seem to have 853.

16 MR. MANNINO: Your Honor, I can put the original
17 book before the witness.

18 THE COURT: Fine, thank you.

19 Is that the book which he has two copies?

20 MR. JOHNSON: He has two copies, your Honor.

21 THE COURT: All right, well, we've identified which
22 book. Now, what is the question?

23 BY MR. JOHNSON:

24 Q Do you see the place where Mr. Sheffler had you read at
25 the subnotation B on the left-hand column of 853?

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1 A Yes.

2 Q Would you please read the sentence that Mr. Sheffler had
3 you read and then read the immediately subsequent sentence?

4 A "It is now confirmed that if a heavy cigarette smoker
5 ceases the habit the risk of developing the disease
6 diminishes with every year since smoking stopped. After ten
7 years the risk is little more than in a non-smoker. This
8 runs contrary to the information gained from all
9 experimental cancer research which has shown that once a
10 threshold dose of a carcinogen has been applied, withdrawal
11 of further application does not prevent the onset of the
12 tumor."

13 Q Doctor, would you now turn to Page 1391 that was read to
14 you under "The Effects of Stopping Smoking." Do you have
15 that, Doctor? It's not that book, it's the other book that
16 they were using, I believe. May we have that one, please?

17 MR. JOHNSON: I'll be happy to approach the
18 witness, your Honor.

19 THE COURT: Well, he got it.. Okay, what's the
20 question?

21 BY MR. JOHNSON:

22 Q Doctor, Mr. Sheffler had you read a sentence from the
23 left column in the center beginning "After cessation of
24 smoking." Do you see where that was?

25 A Yes.

1 Q Would you read that sentence and finish the paragraph
2 and -- just finish the paragraph?

3 A "After cessation of smoking, the number of cells with
4 atypical nuclei decreases progressively, the extent of
5 reversal depending on the number of years after smoking was
6 stopped. A unique cell with a disintegrating nucleus has
7 been identified in the mucosa of the ex-smoker, Figure
8 126-8. The presence of this cell has been interpreted as
9 evidence of a return to a more normal cell population.
10 These cells differ markedly from 'atypical' cells in which
11 the nuclei resemble those of neoplastic cells."

12 Q Would you please go on to the next two sentences in that
13 same passage.

14 A "Cells with disintegrating nuclei have been found five
15 and more years after smoking has ceased (no further
16 application of the carcinogen agent). Thus, the return to
17 normal is gradual."

18 Q Thank you, Doctor.

19 MR. JOHNSON: No further questions on redirect.

20 THE COURT: Is there any recross?

21 MR. SHEFFLER: Just one.

22 RECROSS-EXAMINATION

23 BY MR. SHEFFLER:

24 Q Doctor, would you just finish the rest of the statement
25 that Mr. Johnson asked you to read? What is the last

1 sentence, Doctor?

2 A "However, progression toward bronchial carcinoma is
3 reversed soon after the carcinogenic agent is withdrawn.
4 There is no doubt that cigarette smokers who stop smoking
5 reduce their risk of acquiring lung cancer."

6 Q Thank you, Doctor.

7 THE COURT: I believe that you're excused.

8 (Witness excused.)

9 THE COURT: Members of the jury, we had not
10 finished the matters we had to discuss outside your presence
11 when I brought you back and I knew the testimony of Dr.
12 Pietra on redirect would be brief and I didn't want to keep
13 him waiting.

14 Therefore, I'm going to have to excuse you again.
15 In an effort to expedite the matter, I think that what I
16 will do is ask you if you would take your lunch and come
17 back I guess quarter of 1:00. That means that you don't
18 need to eat when you think it's still breakfast time and it
19 will give us a chance to be able to proceed promptly.

20 I can't at this time tell you, as I had hoped to do
21 at the luncheon recess, how late we'll be sitting today
22 because that's one of the things that we are going to be
23 discussing, but I will give you an afternoon break to make
24 some calls and give you some idea.

25 Thank you, you're excused.

1 (Jury out at 11:30 a.m.)

2 THE COURT: I'll see counsel in chambers.

3 (Luncheon recess taken at 11:30 a.m.)

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